

# HEALTH RELATED QUALITY OF LIFE AFTER SURGICAL REPAIR OF ESOPHAGEAL ATRESIA



**Anna Rozensztrauch<sup>1</sup>, Robert Śmigiel<sup>1</sup>, Dariusz Patkowski<sup>2</sup>**

<sup>1</sup>Department of Paediatrics, Wroclaw Medical University, Poland

<sup>2</sup>Department of Paediatrics Surgery and Urology, Wroclaw Medical University, Poland,

## Introduction

Evaluation of health related quality of life (HRQoL) after surgical repair of esophageal atresia (EA) is an important factor for effective treatment and proper care of the child by health professionals. The aim of this study was to assess a HRQoL in children born with EA.

## Results

- 73 participants (31 girls, 42 boys)
- 51% premature were identified
- 56% had associated malformations
- The analysis of 73 patients owed that there is a significant correlation ( $p < 0,034$ ) between gestation age and QoL in the domain of social functioning (Tabl.1)
- In the surveyed group the mean QoL score in emotional functioning were significantly **lower 57** [range 30-100] then in **social functioning 72** [range 0 – 100], whereas mean physical functioning score was **69** [range 25-100]
- The presence of concomitant anomalies does affect the overall generic QoL (Fig.1)

## Conclusions

- QoL of premature and syndromic with EA appears to be low.

## Methods

The work diagnostic survey method was applied using an Authors-Designed Questionnaire (ADQ), and Polish version of standardized questionnaire the PedsQL™ 4.0 generic core scales.

Tab 1. Gestation age and QoL dimentions

| Dimention             | Gestation age | Mean  | SD    | P-value |
|-----------------------|---------------|-------|-------|---------|
| Physical Functioning  | Preterm       | 66,74 | 20,74 | 0,287   |
|                       | Term          | 71,82 | 21,10 |         |
| Emotional Functioning | Preterm       | 55,65 | 11,34 | 0,704   |
|                       | Term          | 58,82 | 16,96 |         |
| Social Functioning    | Preterm       | 66,08 | 26,77 | 0,034   |
|                       | Term          | 79,04 | 19,99 |         |

SD= standard deviation, significant at P<0.05

## Selected associated anomalies

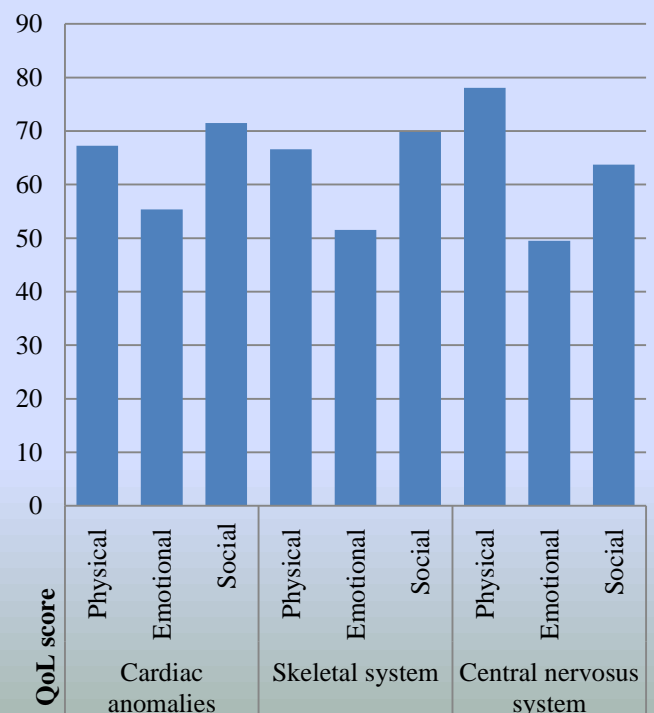


Figure 1. Score ranges from 0 (worst) to 100 (best), the higher the score, the better QoL